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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/069,926		07/23/2002	Josef Pickel	R.38168	9744
2119	7590	07/28/2003			
RONALD : GREIGG &			EXAMINER		
	ATAN S	TREET, UNIT ON	E	EVANS, GEOFFREY S	
	,			ART UNIT	PAPER NUMBER
•				1725	
				DATE MAIL ED. 02000000	

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)	<del> </del> /				
		10/069,926	PICKEL ET AL.	,				
	Office Action Summary	Examiner	Art Unit					
		Geoffrey S Evans	1725					
Period fo	The MAILING DATE of this communication ap or Reply							
- Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nasions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be till by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from	mely filed  ys will be considered timely.  n the mailing date of this communication	ı <b>.</b>				
1)	Responsive to communication(s) filed on							
2a)	This action is FINAL. 2b)⊠ Th	nis action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims								
4) 🖂	Claim(s) 11-30 is/are pending in the application	on.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
1	Claim(s) is/are allowed.							
1	Claim(s) <u>11,12 and 16-30</u> is/are rejected.							
1	Claim(s) 13-15 is/are objected to.							
	Claim(s) are subject to restriction and/o	r election requirement						
Applicati	on Papers	r ciconon requirement.						
9) 🗆 🗆	The specification is objected to by the Examine	r.						
I	The drawing(s) filed on is/are: a)☐ accep		miner .					
	Applicant may not request that any objection to the							
11) 🔲 7	he proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro						
	If approved, corrected drawings are required in rep		or our by the Examiner.					
12) 🔲 🏻	he oath or declaration is objected to by the Ex							
	nder 35 U.S.C. §§ 119 and 120							
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119/a	)-(d) or (f)					
	☐ All b) ☐ Some * c) ☐ None of:	promy and or o. o. o. g 110(a)	)-(a) or (i).					
	1. Certified copies of the priority documents	s have been received						
	2. Certified copies of the priority documents		on No					
	—							
* S	3.⊠ Copies of the certified copies of the prion application from the International Burse the attached detailed Office action for a list o	eau (PCT Rule 17.2(a)). of the certified copies not receive	d.					
14) 🗌 Ad	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	e) (to a provisional application	n).				
a)	The translation of the foreign language provices the translation of the foreign language provices the translation of the transl	isional application has been rece	eived	•				
Attachment(	s)							
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5)   Notice of Informal D	(PTO-413) Paper No(s) atent Application (PTO-152)					
S. Patent and Trac								

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## **DETAILED ACTION**

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: "FORMING BORES WHILE VIBRATING ELECTRODE WIRE DURING ELECTRIC DISCHARGE MACHINING".

- 2. The abstract of the disclosure is objected to because of the inclusion of legal phraseology. Correction is required. See MPEP § 608.01(b).
- 3. The exemplary language in the preamble of claim 1 on lines 2 and 3 "in particular injection ports(11) in injection nozzles (10) of fuel injection systems for motor vehicles" is not considered to be a positive claim limitation in this office action.
- 4. Claims 16-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear whether apparatus claims 16,17, and 18 are intended to be independent claims and the metes and bounds of these claims that depend upon method claims. Respectfully suggest rewriting claims 16,17 and 18 as apparatus claims that do not refer to any method claims.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue in U.S. Patent No. 4,455,469 in view of Laughton et al. in U.S. Patent No. 5,023,422. Inoue discloses as shown in figure 1 uses an electrode wire (element 1) that is excited in a plane parallel to the workpiece. Laughton et al. teaches controlling the vibrations of an electrode or electrodes to form a hole in the workpiece, and vibrating the electrode at the end of the electrode. It would have been obvious to adapt Inoue in view of Laughton et al. to provide this to machine the hole to a desired shape.

- 7. Claims 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Claims 16-30 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Inoue in U.S. Patent No. 4,436,976, Chalkin in U.S. Patent No. 5,159,167, Sawada et al. in U.S. Patent No. 5,773,781, Inoue in Japan Patent No. 56-82,124, Inoue in Japan Patent No. 63-216,631 were cited during the PCT prosecution corresponding to this application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S Evans whose telephone number is (703)-308-1653. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (703)-308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-872-9310 for regular communications and (703)-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0661.

> **Primary Examiner** Art Unit 1725

**GSE** July 20, 2003